

Brake Thermal Efficiency And Bsfc Of Diesel Engines

Diesel engine amount of fuel that is injected, and thus the air-fuel ratio is usually high. This contrasts with engines using spark plug-ignition of the air-fuel mixture, such as a petrol engine (gasoline engine) or a gas engine (using a gaseous fuel like natural gas or liquefied petroleum gas). [citation needed] The diesel engine has the highest thermal efficiency (see The diesel engine, named after the German engineer Rudolf Diesel, is an internal combustion engine in which ignition of diesel fuel is caused by the elevated temperature of the air in the cylinder due to mechanical compression; thus, the diesel engine is called a compression-ignition engine (or CI engine) 650cfa55ec

In its basic gasoline-fuelled form, the Wankel engine has lower thermal efficiency and higher exhaust emissions relative to the four-stroke reciprocating engine. This thermal inefficiency has restricted the Wankel... 650cfa55ec Simple fuel-efficiency techniques can result in reduction in fuel consumption without resorting to radical fuel-saving techniques that can be unlawful and dangerous, such as tailgating larger vehicles. 650cfa55ec

Energy-efficient driving Simple things such as keeping tires properly inflated, having a vehicle well-maintained and avoiding idling can dramatically improve fuel efficiency. friction of tires (11%), air drag (5%), and braking (5%). Careful use of acceleration and deceleration and especially limiting use of high speeds helps efficiency. The use of multiple such techniques is called "hypermiling". Since no miles are gained while idling, or when the engine is in standby, efficiency increases Energy-efficient driving techniques are used by drivers who wish to reduce their fuel consumption, and thus maximize fuel efficiency. Many drivers have the potential to improve their fuel efficiency significantly 650cfa55ec

Wankel engine The midpoint of the rotor moves in a circle around the output shaft, rotating the shaft via a cam. This thermal inefficiency has restricted The Wankel engine (, VAHN-kəl) is a type of internal combustion engine using an eccentric rotary design to convert pressure into rotating motion. Wankel engine has lower thermal efficiency and higher exhaust emissions relative to the four-stroke reciprocating engine. The concept was proven by German engineer Felix Wankel, followed by a commercially feasible engine designed by German engineer Hanns-Dieter Paschke. The rotor spins inside a figure-eight-like epitrochoidal housing around a fixed gear. The Wankel engine's rotor is similar in shape to a Reuleaux triangle, with the sides having less curvature 650cfa55ec

Initially, the engines were built by GM Research, but starting with the third generation GT-305, the Allison Engine division took over responsibility for commercializing... 650cfa55ec

GM Whirlfire engine Fuel consumption of the first-generation GT-300 was high compared to piston engines, so thermal wheel regenerators were added to the second-generation GT-304, cutting consumption by approximately half. They are free-turbine turboshaft machines with two spools: one compressor/gasifier turboshaft and one power/output turboshaft sharing a common axis without a mechanical coupling between them. merged with Detroit Diesel and renamed Detroit Diesel Allison, would produce approximately one hundred of the final design GT-404 engines, which incorporated The GM Whirlfire gas turbine engines were developed in the 1950s by the research division of General Motors Corporation and fitted to concept vehicles, including the Firebird concept cars, Turbo-Cruiser buses, and Turbo-Titan trucks through the 1960s 650cfa55ec

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